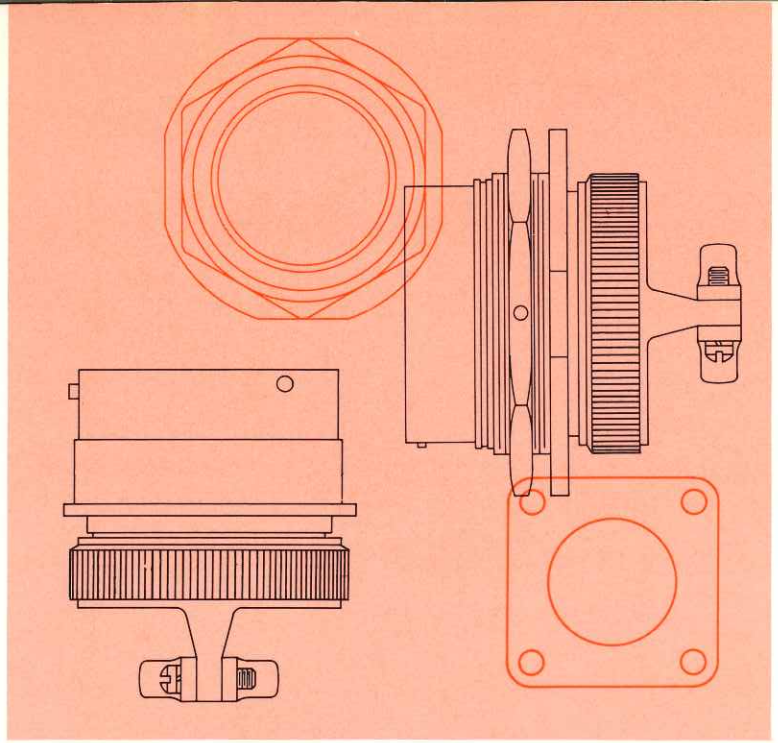


Dust Plugs & Caps

Recd. 2/23/68
X-26

Designed to: MIL-C-26500 (USAF)

ELCO™

WEBSTER CORPORATION

CONNECTORS

"265" SERIES

INTRODUCTION

Elco Webster Series 265 miniature electrical connectors are designed to meet the exacting reliability requirements of present day electronic equipment and systems. The capabilities of this series are also consistent with the demands of future equipment designs.

Series 265 connectors meet the stringent requirements of Mil-C-26500 (USAF) and utilize crimp removable contacts per Mil-C-26636 (USAF). The connector design provides high contact density at a minimum of weight and bulk.

In addition to the high performance and high temperature capabilities, Series 265 connectors also offer superior environmental protection through complete environmental sealing. Careful dielectric material selection and use, under closely controlled manufacturing processes, insure outstanding resistance to fluids and minimize compression set problems. Materials resist insert tearing and high temperature.

These features assure users of reliable components for airborne electrical and electronic equipment, missiles and space vehicles, ground support equipment and systems, and electronic and industrial instrumentation.

INDEX

	Page
INTRODUCTION	Inside Front Cover
DESIGN FEATURES	2
NOMENCLATURE GUIDE	3
ORDERING AND DIMENSIONAL DATA	
SQUARE FLANGE RECEPTACLES (MS 24264)	4
SINGLE HOLE MOUNTING RECEPTACLES (MS 24265)	5
STRAIGHT PLUGS (MS 24266)	6
CONTACT ARRANGEMENTS	7
ALTERNATE KEYING ARRANGEMENTS	8
ACCESSORIES	8-9-10
CROSS REFERENCE	11-12
PERFORMANCE CHARACTERISTICS	Inside Back Cover

WARRANTY: Elco Webster warrants to the first user that it will correct any proven defects in workmanship or material of its products, without charge, by repair or replacement f.o.b. factory, during the first ninety days after delivery, provided same are used in accordance with good engineering practices. Components of other manufacturers are not warranted. Elco Webster assumes no liability of any kind for consequential or special damages. This warranty is in lieu of all other expressed or implied warranties and constitutes Elco Webster's sole obligation in respect to its products.

Specifications are subject to change without notice for product improvement.

Design Features and Material Data

Shells

Lightweight, impact-extruded 6061-T6 aluminum alloy per QQ-A-367 is used in the manufacture of the Series 265 connector shells. Class R connectors feature a non-conductive, hard coated anodic finish while class G connectors feature an electrically conductive finish to provide for EMI shielding. Both finishes provide for maximum corrosion resistance. Three shell styles are available: square flange mounted receptacles per MS24264, single "D" hole mounted receptacles per MS24265, and straight plugs per MS24266. All three styles are available in either threaded or bayonet coupling, and in six different sizes. Alternate polarity keying positions are available to prevent cross-mating when similar connectors are used in close proximity. Maximum durability and ease in coupling and uncoupling of threaded style shells are insured by the use of a special dry film lubricant which is deposited on all threaded portions and coupling ring ramps.

Internal Construction

The internal construction of Series 265 connectors consists of a sandwich type insert assembly. The socket insert assembly consists of a modified resilient fluoro silicone rubber dielectric insert face and a silicone rubber rear grommet, both permanently bonded to a rigid molded glass-filled epoxy wafer which contains the contact retention collets. The pin insert sandwich assembly is available in both hard and soft face with a silicone rubber rear grommet. Contact retention collets are secured in the rear portion of the rigid dielectric insulator. Completed pin and socket sandwich assemblies are an integral and permanent part of the aluminum alloy shells.

Effective environmental performance is attained by the development of a fluoro silicone rubber formulation for the inserts which provides superior interfacial sealing qualities and offers excellent resistance to most hydraulic fluids and lubrication oils. In addition, performance at high temperatures and elimination of the fusing of mated parts are made possible by the specially formulated silicone rubber dielectric. The internal construction of the silicone rubber rear grommets provides effective sealing around the wire range as specified in Mil-C-26500.

Guide lines are provided on both the front and rear faces of the pin and socket sandwich assemblies to aid in insert cavity identification. The insert cavity arrangements are illustrated on page 7.

Collets

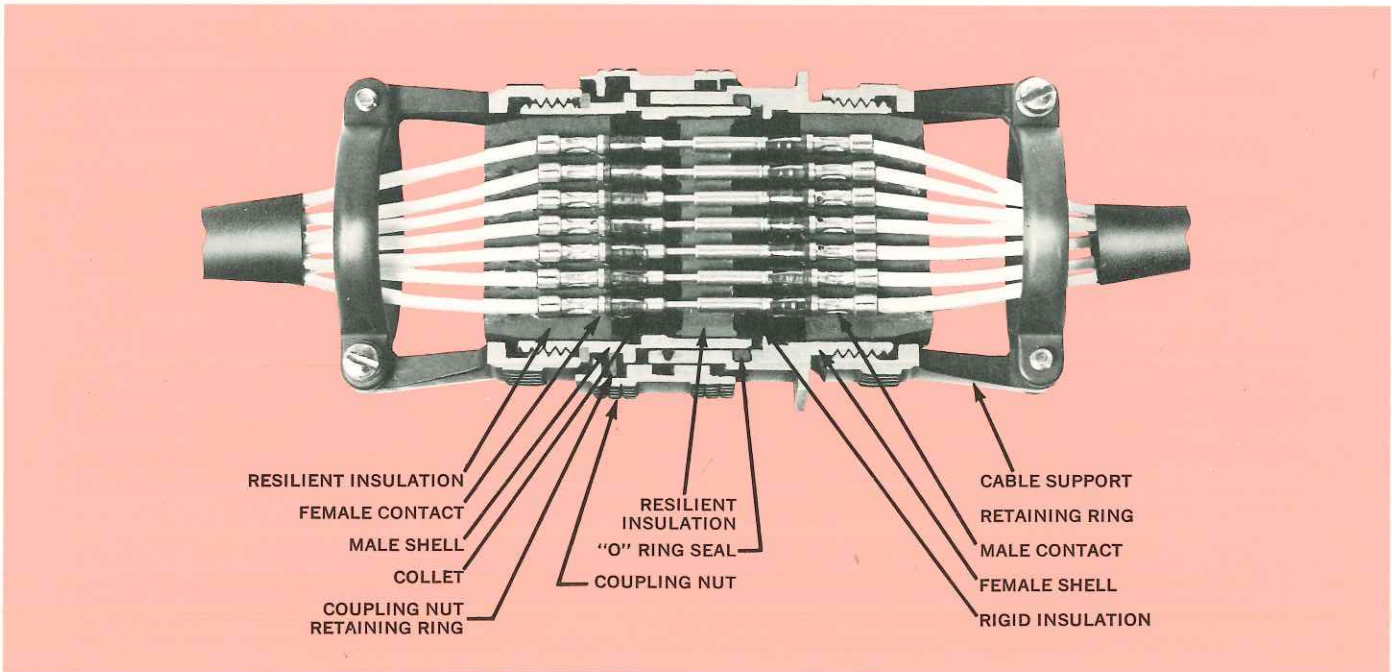
Both pin and socket contacts per Mil-C-26636 (USAF) are retained in the connector assemblies by heat treated beryllium copper retention collets. The Series 265 collet design enables contacts to be inserted or removed easily without damage to the collet or to the internal construction of the connector. For maximum protection, it is recommended that Elco Webster Series 265 contact insertion and removal tools per MS24256 be used (see page 10).

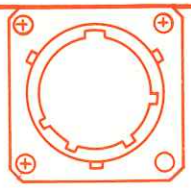
Contacts

All contacts supplied with Series 265 connectors are crimp, removable types per Mil-C-26636 (USAF). They are manufactured of a copper alloy material compatible with specification requirements. Pin contacts are plated with 30 millionths rhodium over silver and socket contacts are plated with 100 millionths of gold over silver and have monel hoods. A standard MS3191-1 hand crimping tool or an automatic crimping machine per Mil-T-22520-2 should be used in crimping contacts to the wire. Series 265 connectors may be ordered with or without contacts and contacts may be purchased separately if desired.

Hardware

A variety of accessories as depicted on pages 8, 9 and 10 can be used to suit customers own requirements. For specials consult our factory.





265 Series Connector Nomenclature Guide

For identification purposes each half of a MIL-C-26500 connector pair is permanently identified with either the applicable Elco Webster or MS part number:

ELCO WEBSTER CATALOG NUMBER IDENTIFICATION

Example: 265 – 04 A – R 22 B 55 P 6 0001

- 0001 — Modification Code (Consult Factory)
- 6 — Alternate Position N, 6, 7, 8, 9, 10
- P — Contact Style, Pin or Socket
- 55 — Contact Arrangement
- B — Coupling Arrangement
- 22 — Shell Size
- R — Environmental Class
- A — Accessory Key Letter
- 04 — Shell Style
- 265 — Series Prefix

COUPLING ARRANGEMENTS
T = Threaded
B = Bayonet

SHELL STYLE
04 = Square Flange Receptacle
05 = Single Hole Mounting Receptacle
06 = Straight Plug

ENVIRONMENTAL CLASS
R = Environment Resistant*
G = Conductive Finish Environment Resistant
SERIES 265 = MIL-C-26500

ACCESSORY KEY LETTERS
A = w/cable support w/contacts
B = w/cable support w/o contacts
C = w/o cable support w/contacts
D = w/o cable support w/o contacts

*Contact nearest sales office for information and availability of MIL-C-38300 connectors.

Mil-C-26500 Connector Nomenclature Guide

MS numbers as well as Elco Webster part numbers can be used in ordering 265 Series connectors. The MS part numbers for MIL-C-26500 connectors are derived from table shown below. All qualified connectors are shipped with the MS marking.

M S 2 4 2 6 6 R 2 2 T 5 5 P 6 X

MS SHELL DRAWING
MS24264—Square Flange Receptacle
MS24265—Single Hole Mounting Receptacle
MS24266—Straight Plug

CABLE SUPPORT
X—Less cable support (Omit if cable support is desired)

Alternate Shell Positions as per table of page 8.

CONTACT STYLE
P—Pin
S—Socket

NUMBER OF CONTACTS
2, 3, 4, 5, 7, 8, 11, 12, 14, 15, 16, 19, 24, 25, 28, 31, 32, 39, 41, 43, 55, 57 or 61
(See page 7)

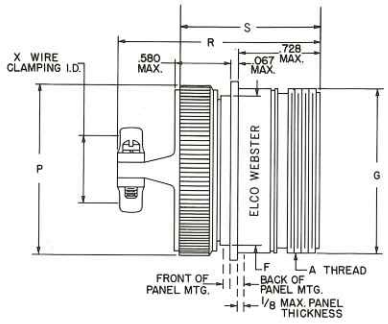
ENVIRONMENTAL CLASS
R—Environment Resistant
G—Conductive Finish Environment Resistant

SHELL SIZE
8, 10, 12, 14, 16, 18, 20, 22 or 24

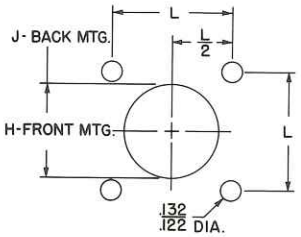
COUPLING TYPE
T—Threaded
B—Bayonet

*Contact nearest sales office for information and availability of MIL-C-38300 connectors.

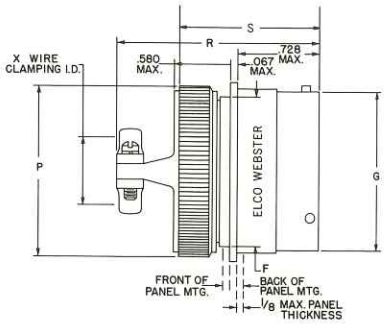
Ordering and Dimensional Data/Receptacles — Square Flange (MS 24264) per Mil-C-26500



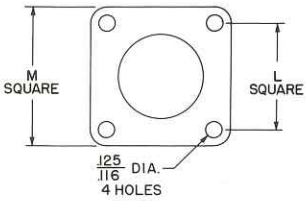
THREADED RECEPTACLE
MS24264RXXT-XXX



PANEL CUTOUT



BAYONET RECEPTACLE
MS24264RXXBXXX



FLANGE THREADED AND BAYONET

Dimensions in inches

SHELL SIZE	A TH'D.	F MAX.	G MAX.	H MIN.	J MIN.	L ± .005	M ± .005	P MAX.	R MAX.	WITHOUT CABLE SUPPORT S MAX.	X ± .015
8	9/16-24	.440	.580	.450	.645	.594	.812	.582	1.890	1.375	.175
10	11/16-24	.562	.696	.572	.748	.719	.937	.914	1.890	1.375	.270
12	7/8-20	.750	.875	.760	.913	.812	1.031	1.026	1.890	1.375	.400
14	15/16-20	.812	.935	.822	.980	.906	1.125	1.090	2.125	1.375	.460
16	1 1/16-18	.938	1.062	.948	1.107	.969	1.250	1.250	2.125	1.375	.610
18	1 3/16-18	1.062	1.187	1.072	1.209	1.062	1.343	1.358	2.125	1.375	.690
20	1 5/16-18	1.256	1.312	1.192	1.377	1.156	1.437	1.496	2.125	1.375	.830
22	1 7/16-18	1.312	1.437	1.322	1.452	1.250	1.562	1.604	2.125	1.375	.940
24	1 9/16-18	1.432	1.562	1.442	1.577	1.375	1.703	1.740	2.125	1.375	1.040

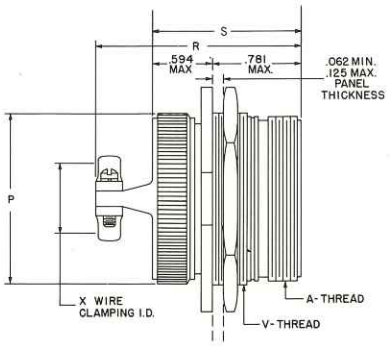
Dimensions in millimeters

SHELL SIZE	A TH'D.	F MAX.	G MAX.	H MIN.	J MIN.	L ± .127	M ± .127	P MAX.	R MAX.	WITHOUT CABLE SUPPORT S MAX.	X ± .381
8	9/16-24	11.176	14.732	11.430	16.383	15.087	20.624	14.782	48.006	34.925	4.445
10	11/16-24	14.274	17.678	14.528	18.999	18.262	23.799	23.215	48.006	34.925	6.858
12	7/8-20	19.050	22.225	19.304	23.190	20.624	26.187	26.060	48.006	34.925	10.160
14	15/16-20	20.624	23.749	20.878	24.892	23.012	28.575	27.686	53.975	34.925	11.684
16	1 1/16-18	23.825	26.974	24.079	25.577	24.612	31.750	31.750	53.975	34.925	15.494
18	1 3/16-18	26.974	30.149	27.228	30.708	26.974	34.112	34.493	53.975	34.925	17.526
20	1 5/16-18	31.902	33.324	30.276	34.975	29.362	36.499	37.998	53.975	34.925	21.082
22	1 7/16-18	33.324	36.499	33.578	36.880	31.750	39.674	40.741	53.975	34.925	23.876
24	1 9/16-18	36.372	39.674	36.626	40.055	34.925	43.256	44.196	53.975	34.925	26.416

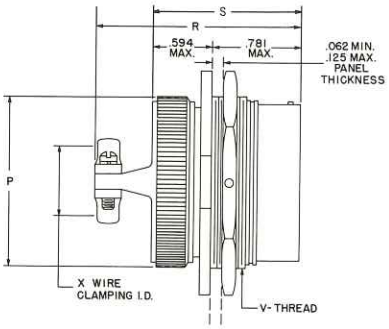
Ordering and Dimensional Data/Receptacles — Single Hole Mounting (MS 24265) per Mil-C-26500

Threaded
Single Hole
Mounting Receptacle

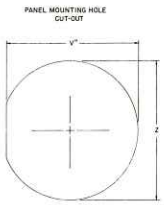
Bayonet
Single Hole
Mounting Receptacle



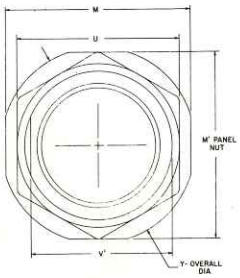
THREADED RECEPTACLES
MS24265RXXTXXX



BAYONET RECEPTACLE
MS24265RXXBXXX



PANEL
CUTOUT



FLANGE AND NUT
THREADED AND BAYONET

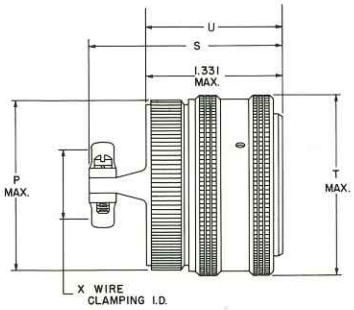
Dimensions in inches

SHELL SIZE	A TH'D.	M MAX.	M' MAX.	P MAX.	R MAX.	WITHOUT CABLE SUPPORT S MAX.	U MAX.	V TH'D.	V' ± .003	V'' ± .005	X ± .015	Y MAX.	Z ± .005
8			Consult Factory										
10	11/16-24	1.109	1.075	.914	1.890	1.375	.953	3/4-20	.718	.730	.270	1.192	.760
12	7/8-20	1.296	1.292	1.026	1.890	1.375	1.140	15/16-20	.905	.917	.400	1.380	.947
14	15/16-20	1.396	1.396	1.090	2.125	1.375	1.205	1-20	.968	.980	.460	1.505	1.010
16	1 1/16-18	1.521	1.521	1.250	2.125	1.375	1.329	1 1/8-20	1.093	1.105	.610	1.630	1.135
18	1 3/16-18	1.646	1.646	1.358	2.125	1.375	1.455	1 1/4-20	1.217	1.225	.690	1.740	1.260
20	1 5/16-18	1.771	1.771	1.496	2.125	1.375	1.567	1 3/8-18	1.342	1.350	.830	1.860	1.385
22	1 7/16-18	1.959	1.959	1.604	2.125	1.375	1.705	1 1/2-20	1.467	1.475	.940	2.040	1.510
24	1 9/16-18	2.084	2.084	1.740	2.125	1.375	1.817	1 5/8-18	1.592	1.600	1.040	2.160	1.635

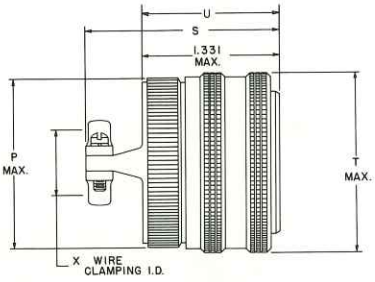
Dimensions in millimeters

SHELL SIZE	A TH'D.	M MAX.	M' MAX.	P MAX.	R MAX.	WITHOUT CABLE SUPPORT S MAX.	U MAX.	V TH'D.	V' ± .076	V'' ± .127	X ± .381	Y MAX.	Z ± .127
8			Consult Factory										
10	11/16-24	28.168	27.305	23.215	48.006	34.925	24.206	3/4-20	18.237	18.542	6.858	30.276	19.304
12	7/8-20	32.918	32.816	26.060	48.006	34.925	28.956	15/16-20	22.987	23.291	10.160	35.052	24.503
14	15/16-20	35.458	35.458	27.686	53.975	34.925	30.607	1-20	24.587	24.892	11.684	38.227	25.654
16	1 1/16-18	38.633	38.633	31.750	53.975	34.925	33.756	1 1/8-20	27.762	28.067	15.494	41.402	28.829
18	1 3/16-18	41.808	41.808	34.493	53.975	34.925	36.957	1 1/4-20	30.911	31.115	17.526	44.196	32.004
20	1 5/16-18	44.983	44.983	37.988	53.975	34.925	39.801	1 3/8-20	34.086	34.290	21.082	47.244	35.179
22	1 7/16-18	49.758	49.758	40.741	53.975	34.925	43.307	1 1/2-20	37.261	37.465	23.876	51.816	38.354
24	1 9/16-18	52.933	52.933	44.196	53.975	34.925	46.151	1 5/8-18	40.436	40.640	26.416	54.864	41.529

Ordering and Dimensional Data/Plugs — Straight (MS 24266) per Mil-C-26500



THREADED PLUG
MS24266RXXTXXX



BAYONET PLUG
MS24266RXXBXXX

Dimensions in inches

SHELL SIZE	P MAX. THRD. & BAY.	S	T MAX. THRD.	T MAX. BAY.	WITHOUT CABLE SUPPORT U MAX.	X ± .015
8	.440	1.832	.764	7.64	1.375	.175
10	.914	1.832	.836	.906	1.375	.270
12	1.026	1.832	1.025	1.078	1.375	.400
14	1.090	2.067	1.125	1.141	1.375	.460
16	1.250	2.067	1.250	1.265	1.375	.610
18	1.358	2.067	1.375	1.375	1.375	.690
20	1.496	2.067	1.508	1.508	1.375	.830
22	1.604	2.067	1.625	1.625	1.375	.940
24	1.740	2.067	1.758	1.758	1.375	1.040

Dimensions in millimeters

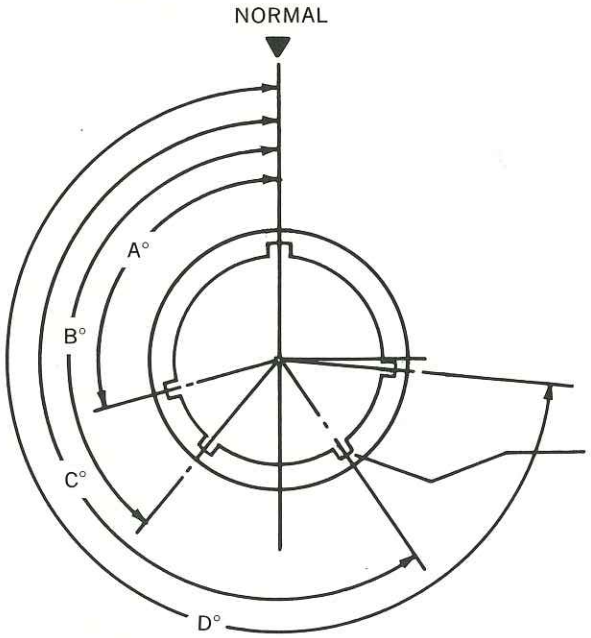
SHELL SIZE	P MAX. THRD. & BAY.	S	T MAX. THRD.	T MAX. BAY.	WITHOUT CABLE SUPPORT U MAX.	X
8	11.176	46.532	19.405	19.405	34.925	4.445
10	23.215	46.532	21.234	23.012	34.925	6.858
12	26.060	46.532	26.035	27.381	34.925	10.160
14	27.686	52.501	28.575	28.981	34.925	11.684
16	31.750	52.501	31.750	32.131	34.925	15.494
18	34.493	52.501	34.925	34.925	34.925	17.526
20	37.998	52.501	38.303	38.303	34.925	21.082
22	40.741	52.501	41.275	41.275	34.925	23.876
24	44.196	52.501	44.653	44.653	34.925	26.416

Mil-C-26500 Contact Arrangements (Engaging Face of Socket Insert)

NUMBER OF CONTACTS	2 CONTACTS	2 CONTACTS	2 CONTACTS	3 CONTACTS	4 CONTACTS	5 CONTACTS	7 CONTACTS
CONNECTOR SIZE & DESIGNATION	8-2	10-2	10-20	12-3	14-4	10-5	14-7
SIZE OF CONTACTS	2-#20	2-#20	2-#16	3-#16	4-#12	5-#20	7-#16
NUMBER OF CONTACTS	8 CONTACTS	10 CONTACTS	12 CONTACTS	12 CONTACTS	12 CONTACTS	14 CONTACTS	15 CONTACTS
CONNECTOR SIZE & DESIGNATION	18-8	16-10	12-12	14-12	22-12	18-14	14-15
SIZE OF CONTACTS	8-#12	10-#16	12-#20	9-#20 & 3-#16	12-#12	14-#16	15-#20
NUMBER OF CONTACTS	16 CONTACTS	19 CONTACTS	24 CONTACTS	25 CONTACTS	28 CONTACTS	31 CONTACTS	32 CONTACTS
CONNECTOR SIZE & DESIGNATION	20-16	22-19	16-24	20-25	20-28	18-31	22-32
SIZE OF CONTACTS	16-#16	19-#16	24-#20	19-#20 & 6-#12	24-#20 & 4-#12	31-#20	26-#20 & 6-#12
NUMBER OF CONTACTS	39 CONTACTS	41 CONTACTS	43 CONTACTS	55 CONTACTS	57 CONTACTS	61 CONTACTS	
CONNECTOR SIZE & DESIGNATION	20-39	20-41	24-43	22-55	24-57	24-61	
SIZE OF CONTACTS	37-#20 & 2-#16	41-#20	23-#20 & 20-#16	55-#20	55-#20 & 2-#12	61-#20	

Alternate Polarity Keying Arrangements

View of front face of receptacle shell. Angles are counter-clockwise from "N" keyway. For plug shell, the key locations are clockwise when viewed from front of plug.



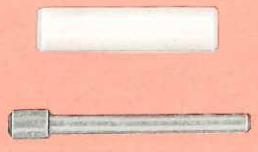
SHELL SIZE	POSITION	A°	B°	C°	D°
8 10	NORMAL	105	140	215	265
	6	102	132	248	320
	7	80	118	230	312
	8	35	140	205	275
	9	64	155	234	304
10 only	10	25	115	220	270
12 14 16 18 20 22 24	NORMAL	105	140	215	265
	6	18	149	192	259
	7	92	152	222	342
	8	84	152	204	334
	9	24	135	199	240
	10	98	152	268	338

Accessories

CONTACTS PER MIL-C-26636

SIZE	MAX. CURRENT RATING	WIRE SIZE AWG.	ELCO WEBSTER PART NUMBER PIN	ELCO WEBSTER PART NUMBER SOCKET	MS PART NUMBER PIN	MS PART NUMBER SOCKET
20	7.5 Amps	24-22-20	22-69P1	55-29G1	MS24254-20P	MS24255-20S
16	22 Amps	18-16	22-69P2	55-26G2	MS24254-16P	MS24255-16S
12	41 Amps	14-12	22-69P3	55-26G3	MS24254-12P	MS24255-12S

NOTE: Special Plating and Material can be supplied—consult factory.



SEALING PLUGS

COLOR CODE	SIZE	ELCO WEBSTER PART NUMBER	MS PART NUMBER
Red	20	225084-20	MS27186-1
Blue	16	225084-16	MS27187-1
Yellow	12	225084-12	MS27187-2

CABLE SUPPORT STANDARD

SIZE	ELCO WEBSTER PART NUMBER	MS PART NUMBER
8	229069-8	———
10	229069-10	MS27291-1
12	229069-12	MS27291-2
14	229069-14	MS27291-3
16	229069-16	MS27291-4
18	229069-18	MS27291-5
20	229069-20	———
22	229069-22	MS27291-6
24	229069-24	———

Accessories

MS METALLIC DUST CAPS — (Complete with Braided Steel Wire Attachment)

Protective metal caps provide an environmental seal for the connector face. When these are used on unmated connectors contamination from dirt, dust, moisture and other foreign materials is avoided; added to this the connector is protected from damage. A braided steel wire strap enables the cap to be attached near the point of use.

FOR BAYONET PLUG

FOR THREADED RECEPTACLE

	SIZE	PLUG EW	PLUG MS	RECEPTACLES EW	RECEPTACLES MS
BAYONET CAP & CHAIN	8	104-15G1	———	104-16G1	———
	10	104-15G2	MS27293-1	104-16G2	MS27295-1
	12	104-15G3	MS27293-2	104-16G3	MS27295-2
	14	104-15G4	MS27293-3	104-16G4	MS27295-3
	16	104-15G5	MS27293-4	104-16G5	MS27295-4
	18	104-15G6	MS27293-5	104-16G6	MS27295-5
	20	104-15G7	———	104-16G7	———
	22	104-15G8	MS27293-6	104-16G8	MS27295-6
	24	104-15G9	———	104-16G9	———
THREADED CAP & CHAIN	8	104-17G1	———	104-18G1	———
	10	104-17G2	MS27292-1	104-18G2	MS27294-1
	12	104-17G3	MS27292-2	104-18G3	MS27294-2
	14	104-17G4	MS27292-3	104-18G4	MS27294-3
	16	104-17G5	MS27292-4	104-18G5	MS27294-4
	18	104-17G6	MS27292-5	104-18G6	MS27294-5
	20	104-17G7	———	104-18G7	———
	22	104-17G8	MS27292-6	104-18G8	MS27294-6
	24	104-17G9	———	104-18G9	———

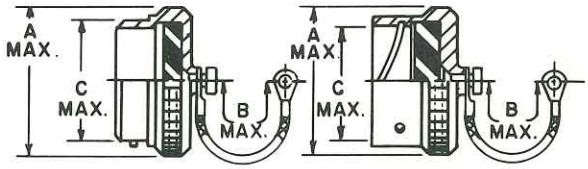
*Consult Factory for Size 8, 20, 24.

Dimensions in Inches

SIZE	A MAX. DIA.	B CHAIN LENGTH	BAYONET CAP & CHAIN C: PLUG CAP ±.000 −.005	BAYONET CAP & CHAIN C: RECEPTACLE CAP ±.005 −.000	THREADED CAP AND CHAIN C—COUPLING THREAD: PLUG UNEF-2A	THREADED CAP AND CHAIN C—COUPLING THREAD: RECEPTACLE UNEF-2B
8	—	—	—	—	—	—
10	.906	3.00	.659	.562	11/16-24	11/16-24
12	1.078	3.00	.829	.832	7/8-20	7/8-20
14	1.141	3.00	.898	.901	15/16-20	15/16-20
16	1.266	5.00	1.025	1.028	1 1/16-18	1 1/16-18
18	1.375	5.00	1.131	1.134	1 3/16-18	1 3/16-18
20	—	—	—	—	—	—
22	1.625	5.00	1.381	1.384	1 7/16-18	1 7/16-18
24	—	—	—	—	—	—

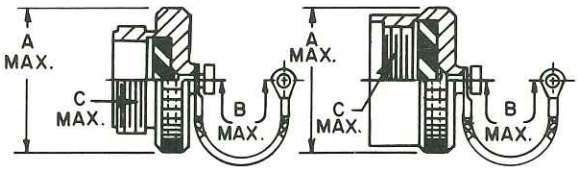
Consult Factory for Size 8, 20, 24.

BAYONET



PLUG CAP RECEPTACLE CAP

THREADED



Dimensions in Millimeters

SIZE	A MAX.	B CHAIN LENGTH	BAYONET CAP & CHAIN C: PLUG CAP +.000 −.127	BAYONET CAP & CHAIN C: RECEPT. CAP +.127 −.000	THREADED CAP AND CHAIN C—COUPLING THREAD: PLUG UNEF-2A	THREADED CAP AND CHAIN C—COUPLING THREAD: RECEPT. UNEF-2B
8	—	—	—	—	—	—
10	23.012	76.200	16.738	14.274	11/16-24	11/16-24
12	27.381	76.200	21.056	21.132	7/8-20	7/8-20
14	28.981	76.200	22.809	22.885	15/16-20	15/16-20
16	32.156	127.000	26.035	26.111	1 1/16-18	1 1/16-18
18	34.925	127.000	28.727	28.803	1 3/16-18	1 3/16-18
20	—	—	—	—	—	—
22	41.275	127.000	35.077	35.153	1 7/16-18	1 7/16-18
24	—	—	—	—	—	—

Consult Factory for Size 8, 20, 24.

Tools

CRIMPING TOOL

MS3191-1
CRIMPING
TOOL

HAND CRIMPING TOOL**
Recommended Crimp Tool is a four indent tool with interchangeable positioners — one for each size contact.

	MS NUMBER	ELCO WEBSTER NUMBER
Tool with Positioners	MS-3191-1	108-5G1
Size 20 Positioner only	MS-3191-20A	69-15G1
Size 16 Positioner only	MS-3191-16A	69-15G2
Size 12 Positioner only	MS-3191-12A	69-15G3

**For Automatic Crimping Applications consult factory.

CONTACT INSERTION AND REMOVAL TOOLS

Elco Webster contact insertion and removal tools feature removable tool tips which facilitate tool maintenance or replacement. Tool tips may be ordered separately.

Contact Removal Tool

Complete Tool Including Tip

MS NUMBER	CONTACT SIZE	PART NUMBER	REPLACEMENT TIPS
MS24256R20	20	108-3G1	69-3G1
MS24256R16	16	108-4G1	69-3G2
MS24256R12	12	108-7G1	69-3G3

Contact Insertion Tool

Complete Tool Including Tip

MS NUMBER	CONTACT SIZE	PART NUMBER	REPLACEMENT TIPS
MS24256A20	20	108-1G1	69-1P1
MS24256A16	16	108-2G1	69-12P1
MS24256A12	12	108-6G1	69-12P2

Back End Hardware — Special

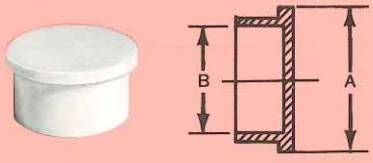
Cable Support - Compression

SIZE	ELCO WEBSTER PART NUMBER
14	229055-14
16	229055-16
18	229055-18
22	229055-22

Compression Ring and Nut Assembly

SIZE	ELCO WEBSTER PART NUMBER
14	229056-14
16	229056-16
18	229056-18
22	229056-22

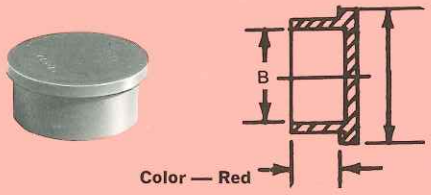
Plug Dust Caps (Plastic)



Color — Yellow

SIZE	A ± .010	B ± .050	PART NUMBER
8			225195-8
10	.663	.860	225195-10
12	.843	1.031	225195-12
14	.906	1.062	225195-14
16	1.026	1.188	225195-16
18	1.151	1.312	225195-18
20			225195-20
22	1.401	1.562	225195-22
24			225195-24

Receptacle Dust Caps (Plastic)



Color — Red

SIZE	A ± .015	B ± .050	C ± .031	PART NUMBER
8				225196-8
10	.687	.921	.500	225196-10
12	.875	1.125	.500	225196-12
14	.937	1.187	.500	225196-14
16	1.062	1.312	.562	225196-16
18	1.187	1.437	.562	225196-18
20				225196-20
22	1.437	1.656	.562	225196-22
24				225196-24

Potting Sleeve
Elco Webster

SHELL SIZE	PART NUMBER
8	109-8G1
10	109-8G2
12	109-8G3
14	109-8G4
16	109-8G5
18	109-8G6
20	109-8G7
22	109-8G8
24	109-8G9

MIL-C-26500
CROSS-REFERENCE LIST NO.
ELCO WEBSTER – AMPHENOL – PYLE NATIONAL

MS NUMBER	ELCO WEBSTER NUMBER	AMPHENOL NUMBER	PYLE NUMBER
MS24264R10T5PN	265-04A-R10T5P	48-00R10-5P	ZZL-A-1710-5P
MS24264R10T5SN	265-04A-R10T5S	48-00R10-5S	ZZL-A-1710-5S
MS24264R10B5PN	265-04A-R10B5P	48-10R10-5P	ZZB-A-1710-5P
MS24264R10B5SN	265-04A-R10B5S	48-10R10-5S	ZZB-A-1710-5S
MS24264R12T3PN	265-04A-R12T3P	48-00R12-3P	ZZL-A-1712-3P
MS24264R12T3SN	265-04A-R12T3S	48-00R12-3S	ZZL-A-1712-3S
MS24264R12B3PN	265-04A-R12B3P	48-10R12-3P	ZZB-A-1712-3P
MS24264R12B3SN	265-04A-R12B3S	48-10R12-3S	ZZB-A-1712-3S
MS24264R12T12PN	265-04A-R12T12P	48-00R12-12P	ZZL-A-1712-12P
MS24264R12T12SN	265-04A-R12T12S	48-00R12-12S	ZZL-A-1712-12S
MS24264R12B12PN	265-04A-R12B12P	48-10R12-12P	ZZB-A-1712-12P
MS24264R12B12SN	265-04A-R12B12S	48-10R12-12S	ZZB-A-1712-12S
MS24264R14T4PN	265-04A-R14T4P	48-00R14-4P	ZZL-A-1714-4P
MS24264R14T4SN	265-04A-R14T4S	48-00R14-4S	ZZL-A-1714-4S
MS24264R14B4PN	265-04A-R14B4P	48-10R14-4P	ZZB-A-1714-4P
MS24264R14B4SN	265-04A-R14B4S	48-10R14-4S	ZZB-A-1714-4S
MS24264R14T7PN	265-04A-R14T7P	48-00R14-7P	ZZL-A-1714-7P
MS24264R14T7SN	265-04A-R14T7S	48-00R14-7S	ZZL-A-1714-7S
MS24264F14B7PN	265-04A-R14B7P	48-10R14-7P	ZZB-A-1714-7P
MS24264R14B7SN	265-04A-R14B7S	48-10R14-7S	ZZB-A-1714-7S
MS24264R14T15PN	265-04A-R14T15P	48-00R14-15P	ZZL-A-1714-15P
MS24264R14T15SN	265-04A-R14T15S	48-00R14-15S	ZZL-A-1714-15S
MS24264R14B15PN	265-04A-R14B15P	48-10R14-15P	ZZB-A-1714-15P
MS24264R14B15SN	265-04A-R14B15S	48-10R14-15S	ZZB-A-1714-15S
MS24264R16T24PN	265-04A-R16T24P	48-00R16-24P	ZZL-A-1716-24P
MS24264R16T24SN	265-04A-R16T24S	48-00R16-24S	ZZL-A-1716-24S
MS24264R16B24PN	265-04A-R16B24P	48-10R16-24P	ZZB-A-1716-24P
MS24264R16B24SN	265-04A-R16B24S	48-10R16-24S	ZZB-A-1716-24S
MS24264R18T8PN	265-04A-R18T8P	48-00R18-8P	ZZL-A-1718-8P
MS24264R18T8SN	265-04A-R18T8S	48-00R18-8S	ZZL-A-1718-8S
MS24264R18B8PN	265-04A-R18B8P	48-10R18-8P	ZZB-A-1718-8P
MS24264R18B8SN	265-04A-R18B8S	48-10R18-8S	ZZB-A-1718-8S
MS24264R18T14PN	265-04A-R18T14P	48-00R18-14P	ZZL-A-1718-14P
MS24264R18T14SN	265-04A-R18T14S	48-00R18-14S	ZZL-A-1718-14S
MS24264R18B14PN	265-04A-R18B14P	48-10R18-14P	ZZB-A-1718-14P
MS24264R18B14SN	265-04A-R18B14S	48-10R18-14S	ZZB-A-1718-14S
MS24264R18T31PN	265-04A-R18T31P	48-00R18-31P	ZZL-A-1718-31P
MS24264R18T31SN	265-04A-R18T31S	48-00R18-31S	ZZL-A-1718-31S
MS24264R18B31PN	265-04A-R18B31P	48-10R18-31P	ZZB-A-1718-31P
MS24264R18B31SN	265-04A-R18B31S	48-10R18-31S	ZZB-A-1718-31S
MS24264R22T12PN	265-04A-R22T12P	48-00R22-12P	ZZL-A-1722-12P
MS24264R22T12SN	265-04A-R22T12S	48-00R22-12S	ZZL-A-1722-12S
MS24264R22B12PN	265-04A-R22B12P	48-10R22-12P	ZZB-A-1722-12P
MS24264R22B12SN	265-04A-R22B12S	48-10R22-12S	ZZB-A-1722-12S
MS24264R22T19PN	265-04A-R22T19P	48-00R22-19P	ZZL-A-1722-19P
MS24264R22T19SN	265-04A-R22T19S	48-00R22-19S	ZZL-A-1722-19S
MS24264R22B19PN	265-04A-R22B19P	48-10R22-19P	ZZB-A-1722-19P
MS24264R22B19SN	265-04A-R22B19S	48-10R22-19S	ZZB-A-1722-19S
MS24264R22T55PN	265-04A-R22T55P	48-00R22-55P	ZZL-A-1722-55P
MS24264R22T55SN	265-04A-R22T55S	48-00R22-55S	ZZL-A-1722-55S
MS24264R22B55PN	265-04A-R22B55P	48-10R22-55P	ZZB-A-1722-55P
MS24264R22B55SN	265-04A-R22B55S	48-10R22-55S	ZZB-A-1722-55S
MS24265R10T5PN	265-05A-R10T5P	48-03R10-5P	ZZL-A-1510-5P
MS24265R10T5SN	265-05A-R10T5S	48-03R10-5S	ZZL-A-1510-5S
MS24265R10B5PN	265-05A-R10B5P	48-13R10-5P	ZZB-A-1510-5P
MS24265R10B5SN	265-05A-R10B5S	48-13R10-5S	ZZB-A-1510-5S
MS24265R12T3PN	265-05A-R12T3P	48-03R12-3P	ZZL-A-1512-3P
MS24265R12T3SN	265-05A-R12T3S	48-03R12-3S	ZZL-A-1512-3S
MS24265R12B3PN	265-05A-R12B3P	48-13R12-3P	ZZB-A-1512-3P
MS24265R12B3SN	265-05A-R12B3S	48-13R12-3S	ZZB-A-1512-3S
MS24265R12T12PN	265-05A-R12T12P	48-03R12-12P	ZZL-A-1512-12P
MS24265R12T12SN	265-05A-R12T12S	48-03R12-12S	ZZL-A-1512-12S
MS24265R12B12PN	265-05A-R12B12P	48-13R12-12P	ZZB-A-1512-12P
MS24265R12B12SN	265-05A-R12B12S	48-13R12-12S	ZZB-A-1512-12S
MS24265R14T4PN	265-05A-R14T4P	48-03R14-4P	ZZL-A-1514-4P
MS24265R14T4SN	265-05A-R14T4S	48-03R14-4S	ZZL-A-1514-4S
MS24265R14B4PN	265-05A-R14B4P	48-13R14-4P	ZZB-A-1514-4P
MS24265R14B4SN	265-05A-R14B4S	48-13R14-4S	ZZB-A-1514-4S
MS24265R14T7PN	265-05A-R14T7P	48-03R14-7P	ZZL-A-1514-7P
MS24265R14T7SN	265-05A-R14T7S	48-03R14-7S	ZZL-A-1514-7S
MS24265R14B7PN	265-05A-R14B7P	48-13R14-7P	ZZB-A-1514-7P
MS24265R14B7SN	265-05A-R14B7S	48-13R14-7S	ZZB-A-1514-7S
MS24265R14T15PN	265-05A-R14T15P	48-03R14-15P	ZZL-A-1514-15P
MS24265R14T15SN	265-05A-R14T15S	48-03R14-15S	ZZL-A-1514-15S
MS24265R14B15PN	265-05A-R14B15P	48-13R14-15P	ZZB-A-1514-15P
MS24265R14B15SN	265-05A-R14B15S	48-13R14-15S	ZZB-A-1514-15S

NOTE: Environmental Class. For requirements in conductive finish. Substitute letter "G" in place of letter "R"

NOTE: Cinch Part Nos. are identical with Amphenol, except with the addition of the prefix "C"

MIL-C-26500
CROSS-REFERENCE LIST NO.
ELCO WEBSTER – AMPHENOL – PYLE NATIONAL

MS NUMBER	ELCO WEBSTER NUMBER	AMPHENOL NUMBER	PYLE NUMBER
MS24265R16T24PN	265-05A-R16T24P	48-03R16-24P	ZZL-A-1516-24P
MS24265R16T24SN	265-05A-R16T24S	48-03R16-24S	ZZL-A-1516-24S
MS24265R16B24PN	265-05A-R16B24P	48-13R16-24S	ZZB-A-1516-24P
MS24265R16B24SN	265-05A-R16B24S	48-13R16-24S	ZZB-A-1516-24S
MS24265R18T8PN	265-05A-R18T8P	48-03R18-8P	ZZL-A-1518-8P
MS24265R18T8SN	265-05A-R18T8S	48-03R18-8S	ZZL-A-1518-8S
MS24265R18B8PN	265-05A-R18B8P	48-13R18-8P	ZZB-A-1518-8P
MS24265R18B8SN	265-05A-R18B8S	48-13R18-8S	ZZB-A-1518-8S
MS24265R18T14PN	265-05A-R18T14P	48-03R18-14P	ZZL-A-1518-14P
MS24265R18T14SN	265-05A-R18T14S	48-03R18-14S	ZZL-A-1518-14S
MS24265R18B14PN	265-05A-R18B14P	48-13R18-14P	ZZB-A-1518-14P
MS24265R18B14SN	265-05A-R18B14S	48-13R18-14S	ZZB-A-1518-14S
MS24265R18T31PN	265-05A-R18T31P	48-03R18-31P	ZZL-A-1518-31P
MS24265R18T31SN	265-05A-R18T31S	48-03R18-31S	ZZL-A-1518-31S
MS24265R18B31PN	265-05A-R18B31P	48-13R18-31P	ZZB-A-1518-31P
MS24265R18B31SN	265-05A-R18B31S	48-13R18-31S	ZZB-A-1518-31S
MS24265R22T12PN	265-05A-R22T12P	48-03R22-12P	ZZL-A-1522-12P
MS24265R22T12SN	265-05A-R22T12S	48-03R22-12S	ZZL-A-1522-12S
MS24265R22B12PN	265-05A-R22B12P	48-13R22-12P	ZZB-A-1522-12P
MS24265R22B12SN	265-05A-R22B12S	48-13R22-12S	ZZB-A-1522-12S
MS24265R22T19PN	265-05A-R22T19P	48-03R22-19P	ZZL-A-1522-19P
MS24265R22T19SN	265-05A-R22T19S	48-03R22-19S	ZZL-A-1522-19S
MS24265R22B19PN	265-05A-R22B19P	48-13R22-19P	ZZB-A-1522-19P
MS24265R22B19SN	265-05A-R22B19S	48-13R22-19S	ZZB-A-1522-19S
MS24265R22T55PN	265-05A-R22T55P	48-03R22-55P	ZZL-A-1522-55P
MS24265R22T55SN	265-05A-R22T55S	48-03R22-55S	ZZL-A-1522-55S
MS24265R22B55PN	265-05A-R22B55P	48-13R22-55P	ZZB-A-1522-55P
MS24265R22B55SN	265-05A-R22B55S	48-13R22-55S	ZZB-A-1522-55S
MS24266R10T5PN	265-06A-R10T5P	48-06R10-5P	ZZL-A-1010-5P
MS24266R10T5SN	265-06A-R10T5S	48-06R10-5S	ZZL-A-1010-5S
MS24266R10B5PN	265-06A-R10B5P	48-16R10-5P	ZZB-A-1010-5P
MS24266R10B5SN	265-06A-R10B5S	48-16R10-5S	ZZB-A-1010-5S
MS24266R12T3PN	265-06A-R12T3P	48-06R12-3P	ZZL-A-1012-3P
MS24266R12T3SN	265-06A-R12T3S	48-06R12-3S	ZZL-A-1012-3S
MS24266R12B3PN	265-06A-R12B3P	48-16R12-3P	ZZB-A-1012-3P
MS24266R12B3SN	265-06A-R12B3S	48-16R12-3S	ZZB-A-1012-3S
MS24266R12T12PN	265-06A-R12T12P	48-06R12-12P	ZZL-A-1012-12P
MS24266R12T12SN	265-06A-R12T12S	48-06R12-12S	ZZL-A-1012-12S
MS24266R12B12PN	265-06A-R12B12P	48-16R12-12P	ZZB-A-1012-12P
MS24266R12B12SN	265-06A-R12B12S	48-16R12-12S	ZZB-A-1012-12S
MS24266R14T4PN	265-06A-R14T4P	48-06R14-4P	ZZL-A-1014-4P
MS24266R14T4SN	265-06A-R14T4S	48-06R14-4S	ZZL-A-1014-4S
MS24266R14B4PN	265-06A-R14B4P	48-16R14-4P	ZZB-A-1014-4P
MS24266R14B4SN	265-06A-R14B4S	48-16R14-4S	ZZB-A-1014-4S
MS24266R14T7PN	265-06A-R14T7P	48-06R14-7P	ZZL-A-1014-7P
MS24266R14T7SN	265-06A-R14T7S	48-06R14-7S	ZZL-A-1014-7S
MS24266R14B7PN	265-06A-R14B7P	48-16R14-7P	ZZB-A-1014-7P
MS24266R14B7SN	265-06A-R14B7S	48-16R14-7S	ZZB-A-1014-7S
MS24266R14T15PN	265-06A-R14T15P	48-06R14-15P	ZZL-A-1014-15P
MS24266R14T15SN	265-06A-R14T15S	48-06R14-15S	ZZL-A-1014-15S
MS24266R14B15PN	265-06A-R14B15P	48-16R14-15P	ZZB-A-1014-15P
MS24266R14B15SN	265-06A-R14B15S	48-16R14-15S	ZZB-A-1014-15S
MS24266R16T24PN	265-06A-R16T24P	48-06R16-24P	ZZL-A-1016-24P
MS24266R16T24SN	265-06A-R16T24S	48-06R16-24S	ZZL-A-1016-24S
MS24266R16B24PN	265-06A-R16B24P	48-16R16-24P	ZZB-A-1016-24P
MS24266R16B24SN	265-06A-R16B24S	48-16R16-24S	ZZB-A-1016-24S
MS24266R18T8PN	265-06A-R18TBP	48-06R18-8P	ZZL-A-1018-8P
MS24266R18T8SN	265-06A-R18T8S	48-06R18-8S	ZZL-A-1018-8S
MS24266R18B8PN	265-06A-R18B8P	48-16R18-8P	ZZB-A-1018-8P
MS24266R18B8SN	265-06A-R18B8S	48-16R18-8S	ZZB-A-1018-8S
MS24266R18T14PN	265-06A-R18T14P	48-06R18-14P	ZZL-A-1018-14P
MS24266R18T14SN	265-06A-R18T14S	48-06R18-14S	ZZL-A-1018-14S
MS24266R18B14PN	265-06A-R18B14P	48-16R18-14P	ZZB-A-1018-14P
MS24266R18B14SN	265-06A-R18B14S	48-16R18-14S	ZZB-A-1018-14S
MS24266R18T31PN	265-06A-R18T31P	48-06R18-31P	ZZL-A-1018-31P
MS24266R18T31SN	265-06A-R18T31S	48-06R18-31S	ZZL-A-1018-31S
MS24266R18B31PN	265-06A-R18B31P	48-16R18-31P	ZZB-A-1018-31P
MS24266R18B31SN	265-06A-R18B31S	48-16R18-31S	ZZB-A-1018-31S
MS24266R22T12PN	265-06A-R22T12P	48-06R22-12P	ZZL-A-1022-12P
MS24266R22T12SN	265-06A-R22T12S	48-06R22-12S	ZZL-A-1022-12S
MS24266R22B12PN	265-06A-R22B12P	48-16R22-12P	ZZB-A-1022-12P
MS24266R22B12SN	265-06A-R22B12S	48-16R22-12S	ZZB-A-1022-12S
MS24266R22T19PN	265-06A-R22T19P	48-06R22-19P	ZZL-A-1022-19P
MS24266R22T19SN	265-06A-R22T19S	48-06R22-19S	ZZL-A-1022-19S
MS24266R22B19PN	265-06A-R22B19P	48-16R22-19P	ZZB-A-1022-19P
MS24266R22B19SN	265-06A-R22B19S	48-16R22-19S	ZZB-A-1022-19S
MS24266R22T55PN	265-06A-R22T55P	48-06R22-55P	ZZL-A-1022-55P
MS24266R22T55SN	265-06A-R22T55S	48-06R22-55S	ZZL-A-1022-55S
MS24266R22B55PN	265-06A-R22B55P	48-16R22-55P	ZZB-A-1022-55P
MS24266R22B55SN	265-06A-R22B55S	48-16R22-55S	ZZB-A-1022-55S

Mil-C-26500 Performance Characteristics

TEST PERFORMED	SPECIFICATION REQUIREMENT	ELCO WEBSTER 265 SERIES TEST RESULTS
Air Leakage	No measurable air leakage with 30 psi applied to rear grommet and insert face when exposed to −55°C temperature.	No measurable leakage.
Altitude Immersion	Connectors must support 1500 V rms when submerged in salt water for 30 minutes. Pressure is alternated between sea level and 75,000 feet altitude requirements.	No breakdown or flashover present. Insulation resistance requirements complied with.
Contact Retention	Following loads are applied axially to the front and rear of individual contacts at approximately one pound per second. Connectors are unmated. Maximum axial displacement is 0.012 inch with pressure applied from front side. Size 20 contacts — 20 lbs.; size 16 contacts — 25 lbs.; size 12 contacts — 30 lbs.	Compliance with specification.
Corrosion	48-hour exposure to salt spray in mated condition without exposing base metal.	Satisfactory mating per specification, no exposure of base metal.
Durability	Threaded styles mated and unmated 200 times, bayonet styles 500 times, without producing electrical or physical defects detrimental to their operation. Requirements of high potential test must also be met.	Compliance with specification requirement and high potential test.
Fluid Immersion	20 hour immersion of unmated connectors in MIL-H-5606 hydraulic fluid and MIL-L-9236 lubrication oil. High potential test requirements must be met.	No evidence of flashover or breakdown.
Dielectric Withstanding Voltage	1000 V rms applied to mated connectors at altitudes up to 110,000 feet and 1500 V rms at sea level. 250 V rms applied to unmated connectors at altitudes up to 110,000 feet and 1500 V rms at sea level. No evidence of flashover or breakdown shall be apparent.	No evidence of flashover or breakdown.
Insulation Resistance	5000 megohms insulation resistance minimum, measured between five pairs of adjacent contacts and three contacts closest to the shell and the shell itself. Measurement taken after maintenance aging.	Measured resistance far in excess of minimum requirement.
Maintenance Aging	Connectors coupled and uncoupled 10 times. A minimum of 10 contacts removed and inserted 10 times. All other test requirements must be met.	No damage observed. All other test requirements met or exceeded.
Moisture Resistance	Tests per MIL-STD-202, Method 106. An insulation resistance of 1000 megohms minimum must be maintained.	Insulation resistance over 1000 megohms.
Ozone Exposure	Exposure of unmated connectors to air containing a minimum ozone concentration of 0.01 to 0.015 percent by volume. Test at room temperature. No evidence of deterioration permitted.	No dielectric damage.
Physical Shock	50 G transient all major axes.	Specification compliance.
Temperature Life	Connectors must function properly for 1000 hours at 200°C ambient. Internal connector temperature 238°C.	Specification compliance.
Thermal Shock	30 minute exposure of mated connectors to each temperature from −55°C to +260°C. Transfers between temperatures begin at −55°C for five cycles. No damage detrimental to connector operation permitted.	No evidence of cracking, fractures, or other physical damage detrimental to operation.
Vibration	Per MIL-STD-202, Method 204, Cond. B. Contacts wired in series. 100 mil. current level. No continuity interruption longer than one microsecond, contact chatter, or connector physical damage.	Specification compliance.

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